## 



1.	An epidural catheter dispenser system, the system comprising:
	at least one sidewall and having a proximal end and a distal end, the distal end
	being connected to a distal end piece, thereby defining an inner cavity;
	wherein the proximal end defines a loading aperture such that a catheter may be
	loaded or adjusted into the inner cavity through the loading aperture; and
	wherein the distal end piece defines a dispensing aperture such that a loaded
	catheter in the inner cavity can be extracted from the inner cavity through
	the dispensing aperture.

- 2. The epidural catheter dispenser system of claim 1 wherein the sidewall's proximal end is further connected to a proximal end piece, thereby further defining an inner cavity, wherein the proximal end piece defines a loading aperture such that a catheter may be loaded or adjusted into the inner cavity through the loading aperture.
- 3. The system of claim 1 wherein the dispenser can be no larger than a human hand.
- 4. The system of claim\2 wherein the dispenser can be no larger than a human hand.
- 5. The system of claim 1, 2, 3 or 4 wherein the dispenser is made of a semi-rigid material.
- 6. The system of claim 1, 2, 3 or 4 wherein the dispenser is positioned in either hand of a user such that the distal end is directed toward the user's thumb and index finger so that the catheter contained within the inner cavity may be completely extracted through the dispensing aperture;
- 7. The system of claim 1, 2, 3 or 4 wherein the sidewall takes the shape of a cone.

1	8.	The system of claim 1, 2, 3 or 4 wherein the sidewall takes the shape of a
2	cylind	
3		
4	9.	The system of claim 1, 2, 3 or 4 wherein the sidewall takes the shape of a
5	polyhe	edron.
6		
7	10.	The system of claim 1, 2, 3 or 4 wherein the inner cavity entirely confines the
8	cathete	er except through the dispensing aperture.
9		
10	11.	The method of preventing contamination of an epidural catheter by loading a
11	cathete	er in an epidural catheter dispenser system, the system comprising:
12		at least one sidewall, the sidewall being conical, cylindrical or polyhedral and
13		having a proximal end and a distal end, the distal end being connected to a
14		distal end piece, thereby defining an inner cavity;
15		wherein the proximal end defines a loading aperture such that a catheter may be
16		loaded or adjusted into the inner cavity through the loading aperture, and
17		wherein the distal end piece defines a dispensing aperture such that a loaded
18		catheter in the inner cavity can be extracted from the inner cavity through
19		the dispensing aperture.
20		
21	12.	The method of claim 11 wherein the proximal end of the epidural catheter
22	dispen	ser system's sidewall is connected to a proximal end piece, thereby further
23	definir	ng an inner cavity,
24		wherein the proximal end piece defines a loading aperture such that a catheter
25		may be loaded or adjusted into the inner cavity through the loading
26		aperture.
27		
28	13.	The method of claim 11 wherein the epidural catheter dispenser system is no
29	larger	than the human hand.
30		

1	14.	The method of claim 12 wherein the epidural catheter dispenser system is no
2	large	than the human hand.
3		
4	15.	The method of claim 11, 12, 13 or 14 wherein the epidural catheter dispenser
5	syste	m is made of a semi-rigid material.
6		
7	16.	The method of claim 11 or 12 wherein the loading of the catheter into the epidural
8	dispe	nser system is performed manually.
9		
10	17.	The method of claim 1,1 or 12 wherein the loading of the catheter into the epidural
11	dispe	nser system is performed mechanically.
12		
13	18.	The method of claim 11 or 12 wherein the loading of the catheter into the epidural
14	dispe	nser system is performed through an automated process.
15		
16	19.	The method of making an epidural catheter dispensing system comprising the
17	steps	of:
18		constructing a mold of a dispenser, the mold comprising at least a sidewall, the
19		sidewall being conical, cylindrical or polyhedral and having a proximal
20		end and a distal end, the distal end being connected to a distal end piece,
21		wherein the distal end piece also has a dispensing aperture;
22		acquiring semi-rigid/material, the semi-rigid material being of a polymer or
23		elemental composition;
24		liquefying the semi-rigid material;
25		pouring the liquefied semi-rigid material into the mold;
26		solidifying the liquefied semi-rigid material in the mold; and
27		extracting the solidified semi-rigid material from the mold.
28		

29

30

31

20. The method of claim 19 wherein the dispenser mold has additionally a proximal end piece connected to the proximal end of the sidewall, the proximal end piece defining a loading aperture.

1	21.	The method of claim 19 or 20 wherein the liquefying step occurs through a
2	heating	g or chemical process.
3		
4	22.	The method of claim 19 or 20 wherein the solidifying step occurs through a
5	coolin	g process.
6		
7	23.	The method of claim 19 or 20 wherein the making of the epidural catheter
8	dispen	ser system is automated.
9		
10	24.	The method of making an epidural catheter dispensing system comprising the
11	steps o	of:
12		constructing a mold of a sidewall, the sidewall being conical, cylindrical or
13		polyhedral and having a proximal and distal end;
14		constructing a mold of a distal end piece, allowing the distal end piece to define a
15		dispensing aperture;
16		constructing a mold of a proximal end piece, allowing the proximal end piece to
17		define a loading aperture;
18		acquiring semi-rigid material, the semi-rigid material being of a polymer or
19		elemental composition;
20		liquefying the semi-rigid material;
21		pouring the liquefied semi-rigid material into each mold;
22		solidifying the liquefied semi-rigid material in each mold;
23		extracting the solidified semi-rigid material from each mold;
24		joining the extracted solidified semi-rigid material shapes to each other such that
25		the sidewall connects to the proximal end piece at the proximal end and
26		the sidewall connects to the distal end piece at the distal end.
27		
28	25.	The method of claim 24 wherein the making of the epidural catheter dispensing
29	systen	n is automated.
30		
	/	I

1	26. The method of claim 24 wherein the liquefying step occurs through a chemical of
2	heating process.
3	
4	27. The method of claim 24 wherein the solidifying step occurs through a cooling
5	process.
6	
7	28. The method of claim 24 wherein the joining step occurs through a chemical o
8	mechanical process.
9	
10	29. The method of making an epidural catheter dispensing system comprising the
11	steps of:
12	constructing a mold of a sidewall, the sidewall being conical, cylindrical o
13	polyhedral and having a proximal and distal end and a distal end piece
14	allowing the distal end piece to define a dispensing aperture;
15	constructing a mold of a proximal end piece, allowing the proximal end piece to
16	define a loading aperture;
17	acquiring semi-rigid material, the semi-rigid material being of a polymer o
18	elemental composition;
19	liquefying the semi-rigid material;
20	pouring the/liquefied semi-rigid material into each mold;
21	solidifying the liquefied semi-rigid material in each mold;
22	extracting the solidified semi-rigid material from each mold;
23	joining the extracted solidified semi-rigid material shapes to each other such that
24	the sidewall with the distal end piece connects to the proximal end piece a
25	the sidewall's proximal end.
26	
27	30. The method of claim 29 wherein the making of the epidural catheter dispensing
28	system is automated.
29	
30	$\sqrt{31}$ . The method of claim 29 wherein the liquefying step occurs through a chemical of
31	heating process.

		•
1	32.	The method of claim 29 wherein the solidifying step occurs through a cooling
2	proces	s.
3		
4	33.	The method of claim 29 wherein the joining step occurs through a chemical or
5	mecha	nical process.
6		
7	34.	The method of making an epidural catheter dispensing system comprising the
8	steps o	of:
9		constructing a mold of a sidewall, the sidewall being conical, cylindrical or
10		polyhedral and having a proximal and distal end and proximal end piece,
11		allowing the proximal end piece to define a loading aperture;
12		constructing a mold a distal end piece, allowing the distal end piece to define a
13		dispensing aperture;
14		acquiring semi-rigid material, the semi-rigid material being of a polymer or
15		elemental composition;
16		liquefying the semi-rigid material;
17		pouring the liquefied semi-rigid material into each mold;
18		solidifying the liquefied semi-rigid material in each mold;
19		extracting the solidified semi-rigid material from each mold;
20		joining the extracted solidified semi-rigid material shapes to each other such that
21		the sidewall with the proximal end piece connects to the distal end piece at
22		the sidewall's distal end.
23		
24	35.	The method of claim 34 wherein the making of the epidural catheter dispensing
25	systen	n is automated.
26		
27	36.	The method of claim 34 wherein the liquefying step occurs through a chemical or
28	heatin	g/process.
29	/	
30	37.	The method of claim 34 wherein the solidifying step occurs through a cooling
31	proces	SS.

1	38.	The method of claim 34 wherein the joining step occurs through a chemical or	
2	mechanical process.		
3			
4	39.	The method of using an epidural catheter dispenser system to dispense an epidural	
5	cathete	er in an epidural injection procedure comprising the steps of:	
6		loading the dispenser system's inner cavity with at least one catheter;	
7		extracting one end of the catheter out of the dispenser's inner cavity through a	
8		dispenser aperture in a distal end piece;	
9		inserting the extracted end of the catheter into the bore of an epidural needle;	
10		advancing the catheter from the dispenser's inner cavity through the bore of an	
11		epidural needle; and	
12		pulling the epidural needle over the entire length of the catheter as the catheter is	
13		simultaneously being extracted from the dispenser's inner cavity,	
14		wherein the epidural catheter dispensing system comprises:	
15		at least one sidewall and having a proximal end and a distal end, the distal	
16		end being connected to a distal end piece, thereby defining an inner	
17		cavity;	
18		wherein the proximal end defines a loading aperture such that a catheter	
19		may be loaded or adjusted into the inner cavity through the loading	
20		aperture; and	
21		wherein the distal end piece defines a dispensing aperture such that a	
22		loaded catheter in the inner cavity can be extracted from the inner	
23		cavity through the dispensing aperture.	
24			
25	40.	The method of claim 39 wherein the epidural catheter dispenser system further	
26	compr	ises a proximal end piece connected to the proximal end of the sidewall, thereby	
27	further	r defining an inner cavity,	
28		and wherein the proximal end piece defines a loading aperture such that a catheter	
29		may be loaded or adjusted into the inner cavity through the loading	
30		/ aperture.	
31			

The method of claim 39 or 40 wherein the loading step is performed manually of 41. 1 mechanically. 2 3 42. The method of claim 39 or 40 wherein the loading step is automated. 4 5 43. The method of claim 39 or 40 wherein the extracting step is performed manually 6 or mechanically. 7 44. The method of claim 39 or 40 wherein the extracting step is automated. 9 10 The method of claim 39 or 40 wherein the inserting step is performed with either 45. 11 hand of a medical practitioner. 12 13 The method of claim 39 or 40 wherein the inserting step is performed with both 46. 14 hands of a medical practitioner. 15 16 47. The method of claim 39 or 40 wherein the advancing step is performed with either 17 hand of a medical practitioner. 18 19 The method of claim 39 or 40 wherein the inserting step is performed with both 48. 20 hands of a medical practitioner. 21 22 The method of claim 39 or 40 wherein the pulling step is performed with either 49. 23 hand of a medical practitioner. 24 25 50. The method of claim 39 or 40 wherein the pulling step is performed with both 26 hands of a medical practitioner. 27